

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/591,628
Source: IFWP
Date Processed by STIC: 9/13/06

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IFWP

RAW SEQUENCE LISTING

DATE: 09/13/2006

PATENT APPLICATION: US/10/591,628

TIME: 11:11:47

Input Set : A:\A0852.70000US01 seq.txt

Output Set: N:\CRF4\09132006\J591628.raw

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3 <110> APPLICANT: Adra, Chaker
5 <120> TITLE OF INVENTION: GRANULOCYTE SUBTYPE-SELECTIVE RECEPTORS AND ION CHANNELS AND
USES
6     THEREOF
8 <130> FILE REFERENCE: A0852.70000WO00
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/591,628
11 <141> CURRENT FILING DATE: 2006-09-05
13 <150> PRIOR APPLICATION NUMBER: PCT/US2005/007519
14 <151> PRIOR FILING DATE: 2005-03-03
16 <150> PRIOR APPLICATION NUMBER: 60/549,865
17 <151> PRIOR FILING DATE: 2004-03-03
19 <160> NUMBER OF SEQ ID NOS: 31
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24 <211> LENGTH: 557
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
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33 atgagaattg gctctatttc ttctacttct ggatagcccg agtaaaaata ctaataattt      180
35 ctagatttta gtggggaact acaattatta ggacccatgg atattgctgc agttcaaata      240
37 caatacagta attacaaaat atagaccatc tctttacaaa tacaaattat agtatattac      300
39 aagtcatgta cagtaaatct ataattttta acaaactagt gtatctaagt ttacctgggt      360
41 gcgagtgcac tattattcca gtttacagtt gcccttagcg tgacagtcag aaaccgacca      420
43 tcggagtgat attctcttat gtaaaactggc gtcacatcac agaaaacctt atttatgagg      480
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53 <213> ORGANISM: Homo sapiens
55 <220> FEATURE:
56 <221> NAME/KEY: CDS
57 <222> LOCATION: (71)..(1198)
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63     Met Asp Ala Ile His Ile Gly Met Ser Ser Thr Pro Leu
64         1             5             10
66 gtg aag cac act gct ggg gct ggg ctc aag gcc aac aga ccc cgc gtc      157
67 Val Lys His Thr Ala Gly Ala Gly Leu Lys Ala Asn Arg Pro Arg Val
68     15             20             25
70 atg tcc aag agt ggg cac agc aac gtg aga att gac aaa gtg gat ggc      205

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74	ata	tac	cta	ctc	tac	ctg	caa	gac	ctg	tgg	acc	aca	gtt	atc	gac	atg	253
75	Ile	Tyr	Leu	Leu	Tyr	Leu	Gln	Asp	Leu	Trp	Thr	Thr	Val	Ile	Asp	Met	
76					50					55					60		
78	aag	tgg	aga	tac	aaa	ctc	acc	ctg	ttc	gct	gcc	act	ttt	gtg	atg	acc	301
79	Lys	Trp	Arg	Tyr	Lys	Leu	Thr	Leu	Phe	Ala	Ala	Thr	Phe	Val	Met	Thr	
80				65					70					75			
82	tgg	ttc	ctt	ttt	gga	gtc	atc	tac	tat	gcc	atc	gcg	ttt	att	cat	ggg	349
83	Trp	Phe	Leu	Phe	Gly	Val	Ile	Tyr	Tyr	Ala	Ile	Ala	Phe	Ile	His	Gly	
84			80					85					90				
86	gac	tta	gaa	ccc	gat	gag	ccc	att	tca	aat	cat	acc	ccc	tgc	atc	atg	397
87	Asp	Leu	Glu	Pro	Asp	Glu	Pro	Ile	Ser	Asn	His	Thr	Pro	Cys	Ile	Met	
88		95					100					105					
90	aaa	gtg	gac	tct	ctc	act	ggg	gcg	ttt	ctc	ttt	tcc	ctg	gaa	tcc	cag	445
91	Lys	Val	Asp	Ser	Leu	Thr	Gly	Ala	Phe	Leu	Phe	Ser	Leu	Glu	Ser	Gln	
92	110					115				120					125		
94	aca	acc	att	ggc	tat	gga	gtc	cgt	tcc	atc	aca	gag	gaa	tgt	cct	cat	493
95	Thr	Thr	Ile	Gly	Tyr	Gly	Val	Arg	Ser	Ile	Thr	Glu	Glu	Cys	Pro	His	
96				130					135					140			
98	gcc	atc	ttc	ctg	ttg	gtt	gct	cag	ttg	gtc	atc	acg	acc	ttg	att	gag	541
99	Ala	Ile	Phe	Leu	Leu	Val	Ala	Gln	Leu	Val	Ile	Thr	Thr	Leu	Ile	Glu	
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102	atc	ttc	atc	acc	gga	acc	ttc	ctg	gcc	aaa	atc	gcc	aga	ccc	aaa	aag	589
103	Ile	Phe	Ile	Thr	Gly	Thr	Phe	Leu	Ala	Lys	Ile	Ala	Arg	Pro	Lys	Lys	
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106	cgg	gct	gag	acc	atc	aag	ttc	agc	cac	tgt	gca	gtc	atc	acc	aag	cag	637
107	Arg	Ala	Glu	Thr	Ile	Lys	Phe	Ser	His	Cys	Ala	Val	Ile	Thr	Lys	Gln	
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111	Asn	Gly	Lys	Leu	Cys	Leu	Val	Ile	Gln	Val	Ala	Asn	Met	Arg	Lys	Ser	
112	190					195				200					205		
114	ctc	ttg	att	cag	tgc	cag	ctc	tct	ggc	aag	ctc	ctg	cag	acc	cac	gtc	733
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116				210					215					220			
118	acc	aag	gag	ggg	gag	cgg	att	ctc	ctc	aac	caa	gcc	act	gtc	aaa	ttc	781
119	Thr	Lys	Glu	Gly	Glu	Arg	Ile	Leu	Leu	Asn	Gln	Ala	Thr	Val	Lys	Phe	
120				225					230					235			
122	cac	gtg	gac	tcc	tcc	tct	gag	agc	ccc	ttc	ctc	att	ctg	ccc	atg	aca	829
123	His	Val	Asp	Ser	Ser	Ser	Glu	Ser	Pro	Phe	Leu	Ile	Leu	Pro	Met	Thr	
124			240					245					250				
125	ttc	tac	cat	gtg	ctg	gat	gag	acg	agc	ccc	ctg	aga	gac	ctc	aca	ccc	877
126	Phe	Tyr	His	Val	Leu	Asp	Glu	Thr	Ser	Pro	Leu	Arg	Asp	Leu	Thr	Pro	
127		255					260					265					
129	caa	aac	cta	aag	gag	aag	gag	ttt	gag	ctt	gtg	gtc	ctc	ctc	aat	gcc	925
130	Gln	Asn	Leu	Lys	Glu	Lys	Glu	Phe	Glu	Leu	Val	Val	Leu	Leu	Asn	Ala	
131	270					275				280					285		
133	act	gtg	gaa	tcc	acc	agc	gct	gtc	tgc	cag	agc	cga	aca	tct	tat	atc	973
134	Thr	Val	Glu	Ser	Thr	Ser	Ala	Val	Cys	Gln	Ser	Arg	Thr	Ser	Tyr	Ile	

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135          290          295          300
137 cca gag gaa atc tac tgg ggt ttt gag ttt gtg cct gtg gta tct ctc      1021
138 Pro Glu Glu Ile Tyr Trp Gly Phe Glu Phe Val Pro Val Val Ser Leu
139          305          310          315
141 tcc aaa aat gga aaa tat gtg gct gat ttc agt cag ttt gaa cag att      1069
142 Ser Lys Asn Gly Lys Tyr Val Ala Asp Phe Ser Gln Phe Glu Gln Ile
143          320          325          330
145 cgg aaa agc cca gat tgc aca ttt tac tgt gca gat tct gag aaa cag      1117
146 Arg Lys Ser Pro Asp Cys Thr Phe Tyr Cys Ala Asp Ser Glu Lys Gln
147          335          340          345
149 caa ctc gag gag aag tac agg cag gag gat cag agg gaa aga gaa ctg      1165
150 Gln Leu Glu Glu Lys Tyr Arg Gln Glu Asp Gln Arg Glu Arg Glu Leu
151 350          355          360          365
153 agg aca ctt tta tta caa cag agc aat gtc tga tcacaggggc gccatccagg      1218
154 Arg Thr Leu Leu Leu Gln Gln Ser Asn Val
155          370          375
157 tttaaccctg caagctgttt ccacatcaga actcccttca aacacaaaga ttgctgtgaa      1278
159 aacgaaaatg tgtagacgca ctctcaaaaa ctgcacggac atacaaaatc aatcttttcc      1338
161 tttgatcttg tggctaaacc agcatttctg tgtttgagag atttctgtgt aggtgcttcg      1398
163 tctgaaagtg aactctcata attcaaattg tataaaataa agctacattt ctaagagctt      1458
165 ggtgtagggc aattggaata atgtcctgtt agataaacag acatttagca atgctgacat      1518
167 taaaaggaaa tgtatttcta tacaagatta ttagctgtaa tacaagatat ttatttaacc      1578
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187 Ser Gly His Ser Asn Val Arg Ile Asp Lys Val Asp Gly Ile Tyr Leu
188          35          40          45
191 Leu Tyr Leu Gln Asp Leu Trp Thr Thr Val Ile Asp Met Lys Trp Arg
192          50          55          60
195 Tyr Lys Leu Thr Leu Phe Ala Ala Thr Phe Val Met Thr Trp Phe Leu
196 65          70          75          80
199 Phe Gly Val Ile Tyr Tyr Ala Ile Ala Phe Ile His Gly Asp Leu Glu
200          85          90          95
203 Pro Asp Glu Pro Ile Ser Asn His Thr Pro Cys Ile Met Lys Val Asp
204          100          105          110
207 Ser Leu Thr Gly Ala Phe Leu Phe Ser Leu Glu Ser Gln Thr Thr Ile
208          115          120          125
211 Gly Tyr Gly Val Arg Ser Ile Thr Glu Glu Cys Pro His Ala Ile Phe
212          130          135          140
215 Leu Leu Val Ala Gln Leu Val Ile Thr Thr Leu Ile Glu Ile Phe Ile
216 145          150          155          160
219 Thr Gly Thr Phe Leu Ala Lys Ile Ala Arg Pro Lys Lys Arg Ala Glu

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231	Gln	Cys	Gln	Leu	Ser	Gly	Lys
232		210				215	
235	Gly	Glu	Arg	Ile	Leu	Leu	Asn
236	225				230		235
239	Ser	Ser	Ser	Glu	Ser	Pro	Phe
240					245		250
243	Val	Leu	Asp	Glu	Thr	Ser	Pro
244			260				265
247	Lys	Glu	Lys	Glu	Phe	Glu	Leu
248			275				280
249	Ser	Thr	Ser	Ala	Val	Cys	Gln
250		290				295	
253	Ile	Tyr	Trp	Gly	Phe	Glu	Phe
254	305				310		315
257	Gly	Lys	Tyr	Val	Ala	Asp	Phe
258				325			330
261	Pro	Asp	Cys	Thr	Phe	Tyr	Cys
262			340				345
265	Glu	Lys	Tyr	Arg	Gln	Glu	Asp
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291	caaggctccc agagacaccc atctctcctc attttttttg tgtgtgtgtc ttcaccgaac 300						
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295	cactggagtc cccagcagaa gcg atg ggc agt gtg cga acc aac cgc tac agc 413						
296	Met Gly Ser Val Arg Thr Asn Arg Tyr Ser						
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299	atc gtc tct tca gaa gaa gac ggt atg aag ttg gcc acc atg gca gtt 461						
300	Ile Val Ser Ser Glu Glu Asp Gly Met Lys Leu Ala Thr Met Ala Val						
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304	Ala Asn Gly Phe Gly Asn Gly Lys Ser Lys Val His Thr Arg Gln Gln						

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316	Thr	Cys	Val	Asp	Ile	Arg	Trp	Arg	Trp	Met	Leu	Val	Ile	Phe	Cys	Leu	
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320	Ala	Phe	Val	Leu	Ser	Trp	Leu	Phe	Phe	Gly	Cys	Val	Phe	Trp	Leu	Ile	
321				95						100				105			
323	gct	ctg	ctc	cat	ggg	gac	ctg	gat	gca	tcc	aaa	gag	ggc	aaa	gct	tgt	749
324	Ala	Leu	Leu	His	Gly	Asp	Leu	Asp	Ala	Ser	Lys	Glu	Gly	Lys	Ala	Cys	
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327	gtg	tcc	gag	gtc	aac	agc	ttc	acg	gct	gcc	ttc	ctc	ttc	tcc	att	gag	797
328	Val	Ser	Glu	Val	Asn	Ser	Phe	Thr	Ala	Ala	Phe	Leu	Phe	Ser	Ile	Glu	
329			125				130				135						
331	acc	cag	aca	acc	ata	ggc	tat	ggt	ttc	aga	tgt	gtc	acg	gat	gaa	tgc	845
332	Thr	Gln	Thr	Thr	Ile	Gly	Tyr	Gly	Phe	Arg	Cys	Val	Thr	Asp	Glu	Cys	
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335	cca	att	gct	ggt	ttc	atg	gtg	gtg	ttc	cag	tca	atc	gtg	ggc	tgc	atc	893
336	Pro	Ile	Ala	Val	Phe	Met	Val	Val	Phe	Gln	Ser	Ile	Val	Gly	Cys	Ile	
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339	atc	gat	gct	ttc	atc	att	ggc	gca	gtc	atg	gcc	aag	atg	gca	aag	cca	941
340	Ile	Asp	Ala	Phe	Ile	Ile	Gly	Ala	Val	Met	Ala	Lys	Met	Ala	Lys	Pro	
341				175				180				185					
343	aag	aag	aga	aac	gag	act	ctt	gtc	ttc	agt	cac	aat	gcc	gtg	att	gcc	989
344	Lys	Lys	Arg	Asn	Glu	Thr	Leu	Val	Phe	Ser	His	Asn	Ala	Val	Ile	Ala	
345			190					195				200					
347	atg	aga	gac	ggc	aag	ctg	tgt	ttg	atg	tgg	cga	gtg	ggc	aat	ctt	cgg	1037
348	Met	Arg	Asp	Gly	Lys	Leu	Cys	Leu	Met	Trp	Arg	Val	Gly	Asn	Leu	Arg	
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351	aaa	agc	cac	ttg	gtg	gaa	gct	cat	ggt	cga	gca	cag	ctc	ctc	aaa	tcc	1085
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355	aga	att	act	tct	gaa	ggg	gag	tat	atc	cct	ctg	gat	caa	ata	gac	atc	1133
356	Arg	Ile	Thr	Ser	Glu	Gly	Glu	Tyr	Ile	Pro	Leu	Asp	Gln	Ile	Asp	Ile	
357	235				240				245						250		
359	aat	ggt	ggg	ttt	gac	agt	gga	atc	gat	cgt	ata	ttt	ctg	gtg	tcc	cca	1181
360	Asn	Val	Gly	Phe	Asp	Ser	Gly	Ile	Asp	Arg	Ile	Phe	Leu	Val	Ser	Pro	
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363	atc	act	ata	gtc	cat	gaa	ata	gat	gaa	gac	agt	cct	tta	tat	gat	ttg	1229
364	Ile	Thr	Ile	Val	His	Glu	Ile	Asp	Glu	Asp	Ser	Pro	Leu	Tyr	Asp	Leu	
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367	agt	aaa	cag	gac	att	gac	aac	gca	gac	ttt	gaa	atc	gtg	gtc	ata	ctg	1277
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